

# Arizona - 50 m Wind Power

## Transmission Line\*

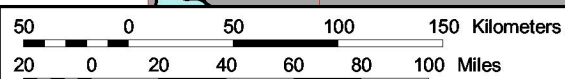
Voltage (kV)

- 115 - 161
- 230
- 345
- 500

\* Source: POWERmap, ©2002  
Platts, a Division of the McGraw-Hill Companies

## Indian Reservation

- 1 Kaibab
- 2 Hualapai
- 3 Havasupai
- 4 Navajo
- 5 Hopi
- 6 Zuni
- 7 Fort Apache
- 8 San Carlos
- 9 Fort McDowell
- 10 Salt River
- 11 Gila River
- 12 Maricopa
- 13 Tohono O'odham
- 14 San Xavier
- 15 Cocopah
- 16 Colorado River
- 17 Fort Mojave
- 18 Yavapai



## Wind Power Classification

| Wind Power Class | Resource Potential | Wind Power Density at 50 m W/m <sup>2</sup> | Wind Speed <sup>a</sup> at 50 m m/s | Wind Speed <sup>a</sup> at 50 m mph |
|------------------|--------------------|---|-------------------------------------|-------------------------------------|
| 1                | Poor               | 0 - 200                                     | 0.0 - 5.5                           | 0.0 - 12.3                          |
| 2                | Marginal           | 200 - 300                                   | 5.5 - 6.3                           | 12.3 - 14.1                         |
| 3                | Fair               | 300 - 400                                   | 6.3 - 7.0                           | 14.1 - 15.7                         |
| 4                | Good               | 400 - 500                                   | 7.0 - 7.5                           | 15.7 - 16.8                         |
| 5                | Excellent          | 500 - 600                                   | 7.5 - 8.0                           | 16.8 - 17.9                         |
| 6                | Outstanding        | 600 - 800                                   | 8.0 - 8.8                           | 17.9 - 19.7                         |
| 7                | Superb             | > 800                                       | > 8.8                               | > 19.7                              |

<sup>a</sup> Wind speeds are based on a Weibull k of 1.8 at 1000 m elevation.

The annual wind power estimates for this map were produced by TrueWind Solutions using their Mesomap system and historical weather data. It has been validated with available surface data by NREL and wind energy meteorological consultants.



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